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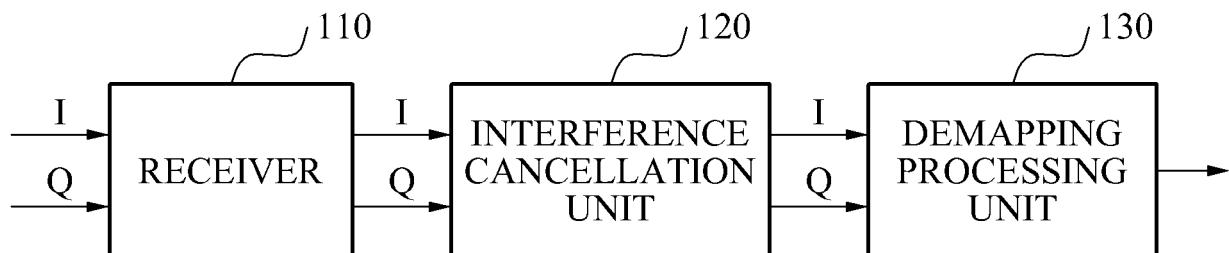
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(54) **Apparatus and method for soft demapping**

(57) Provided are a soft demapping apparatus and method that may cancel interference included in a rotated quadrature amplitude modulation (QAM) signal, using at

least one interference cancellation unit, and may perform one-dimensional (1D) soft demapping of the interference-cancelled rotated QAM signal.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 12 16 7511

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	MENG LI ET AL: "Design of rotated QAM mapper/demapper for the DVB-T2 standard", SIGNAL PROCESSING SYSTEMS, 2009. SIPS 2009. IEEE WORKSHOP ON, IEEE, PISCATAWAY, NJ, USA, 7 October 2009 (2009-10-07), pages 18-23, XP031568768, ISBN: 978-1-4244-4335-2	1-8, 13-15	INV. H04L25/02 H04L27/38 H04L27/34 H04L25/06
Y	* sections 2.2, 3 and 5.1 * * figures 1, 9 *	9-12	ADD. H04L25/03
Y	SEOKJOON HONG ET AL: "Spatial diversity technique combined with rotated constellation for MIMO-OFDM systems", IEEE 20TH INTERNATIONAL SYMPOSIUM ON PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS (PIMRC 2009), IEEE, PISCATAWAY, NJ, USA, 13 September 2009 (2009-09-13), pages 2007-2011, XP031660028, ISBN: 978-1-4244-5122-7	9-12	
A	* the whole document *	1-8, 13-15	TECHNICAL FIELDS SEARCHED (IPC) H04L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 2 March 2016	Examiner Vucic, Jelena
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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